

IN THE SPECIFICATION:

(1) Kindly replace paragraph 17, on page 7, of the substitute application with the following amended paragraph:

FIGURE + 1A illustrates a capacitive structure that forms one environment with which the present invention can operate on to reduce the complexity thereof;

(2) Kindly insert the following paragraph after paragraph 17, on page 7, of the substitute application:

FIGURE 1B illustrates an embodiment of the capacitive structure of FIGURE 1A with the geometry of conductor C3 approximated to reduce complexity thereof according to the principles of the present invention;

(3) Kindly replace paragraph 23, on page 8, of the substitute application with the following amended paragraph:

Referring initially to FIGURE + 1A, illustrated is a capacitive structure that forms one environment with which the present invention can operate to reduce the complexity thereof. The capacitive structure 100 illustrates an example of three nets C1, C2, C3 in an integrated circuit (IC). A net is comprised of metallic pieces connected together to allow a current to pass from a first point in an IC to a second point in the IC. The net has an associated capacitance. The net may pass through and include portions of different IC structures that can affect the associated capacitance of the net. The IC structures may include traces, capacitors, switches, resistors and other elements that make up an IC.

(4) Kindly replace paragraph 29, on page 10, of the substitute application with the following amended paragraph:

The geometry of the nets C1, C2, C3 is described hierarchically and captured to a level of detail needed to determine an accurate solution. For example, in FIGURE 1A, since the net C2 is located close to the net C1, the net C1 and the net C2 are captured with relatively detailed geometric descriptions. However, since the net C3 is located far enough away from the net C1, then the net C3 may be captured with relatively coarse geometric descriptions.

(5) Kindly insert the following paragraph after paragraph 29, on page 10, of the substitute application:

FIGURE 1B illustrates an embodiment of the capacitive structure of FIGURE 1A with the geometry of conductor C3 approximated to reduce complexity thereof according to the principles of the present invention. In FIGURE 1B, the net C3 is captured with a relatively coarse geometric description shown as C3'. The replacement geometric description C3' maintains the general shape of C3 with the same area and approximately the same distribution of area. Thus, C3' provides a simpler geometric description that can reduce the number of unknowns for capacitance calculations.